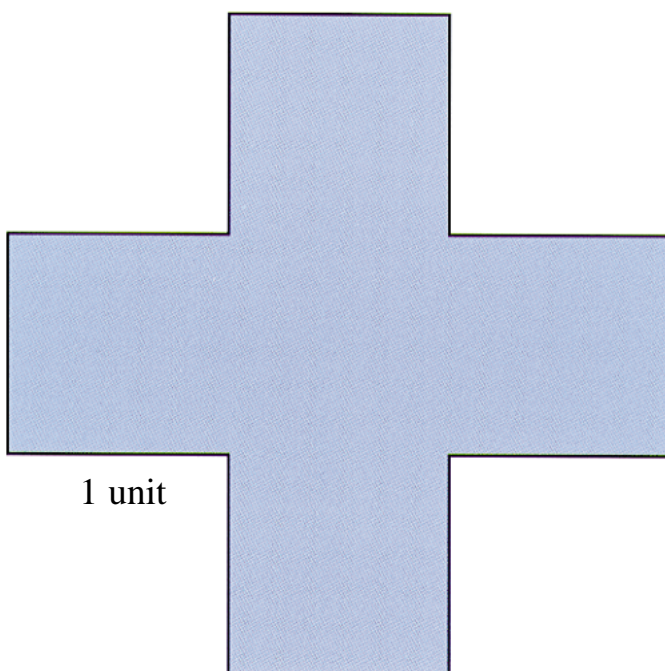


## Squaring a Greek Cross

### Problem-of-the-Week

#### The Problem

The figure shown below is called a Greek cross. All the sides of a Greek cross have the same length. Find a way to make two straight cuts in a Greek cross so that the resulting four pieces can be assembled to make a square.



#### Strategies and Hints

1. Start by finding the length of a side of the finished square.
2. Find the length of a diagonal of the rectangle shown at the right. Such a segment will be one of your two straight cuts.
3. None of the sides of the Greek cross ends up being part of a side of the finished square. What does this suggest about the relationship between the two straight cuts?

